



DEPARTMENT OF THE ARMY  
JACKSONVILLE DISTRICT CORPS OF ENGINEERS  
2170 SW Canal Street  
Stuart, FL 34997

REPLY TO  
ATTENTION OF

February 7, 2008

Regulatory Division  
Special Projects and Enforcement Branch  
SAJ-2008-335(NW-AAZ)

South Florida Water Management District  
Attn: Mr. Larry Carter  
3301 Gun Club Road  
West Palm Beach, FL 33406

Dear Mr. Carter:

Your application for a Department of the Army permit received on January 28, 2008, for the S-71 and S-72 Spillway Structure Stability Projects has been assigned number SAJ-2008-335(NW-AAZ). A review of the information and drawings provided shows the proposed work is an emergency action to provide structural stability and water supply resulting from the drought conditions. The work associated with the S-72 spillway structure includes construction of a temporary construction dewatering system, steel sheet pile weir, rubble riprap, pump intake bay, staging area for two 4,000 gallon above ground diesel fuel tanks and three temporary hydraulic pumps. The work associated with the S-71 structure is similar to the S-72 structure except there are no proposed water supply pumps proposed in the S-71 structure. Approximately 750 cubic yards of material would be excavated from the C-40 Canal associated with the S-72 work, and 200 cubic yards of material from the C-41 Canal associated with the S-71 structure. The project is as described on the enclosed drawings. The project is located approximately 1800 feet south (towards Lake Okeechobee) of spillway structure S-72 in the Indian Prairie Canal (C-40) and S-71 in the Harney Pond Canal (C-41) in Sections 10, 14, and 15, Township 39 South, Range 33 East, Glades County, Florida.

Your project, as depicted on the enclosed drawings, is authorized by Nationwide Permit (NWP) Number 31. In addition, project specific conditions have been enclosed. This verification is valid until February 7, 2010. Please access the U.S. Army Corps of Engineers' Jacksonville District's Regulatory web address at

<http://www.saj.usace.army.mil/regulatory/permitting/nwp/nwp.htm> to access web links to view the Final Nationwide Permits, Federal Register Vol. 72, dated March 12, 2007, the Corrections to the Final Nationwide Permits, Federal Register 72, May 8, 2007, and the List of Regional Conditions. These files contain the description of the Nationwide Permit authorization, the Nationwide Permit general conditions, and the regional conditions, which apply specifically to this verification for NWP 7. A copy of a portion of the Final Nationwide Permits, Federal Register Vol. 72, dated March 12, 2007, has been enclosed, specifically pages 11180 through 11198. Additionally, enclosed is a list of the six General Conditions, which apply to all Department of the Army authorizations. You must comply with all of the special and general conditions and any project specific condition of this authorization or you may be subject to enforcement action. In the event you have not completed construction of your project within the specified time limit, a separate application or re-verification may be required.

The following special conditions are included with this verification:

1. Within 60 days of completion of the work authorized, the attached "Self-Certification Statement of Compliance" must be completed and submitted to the U.S. Army Corps of Engineers. Mail the completed form to the Regulatory Division, Enforcement Section, Post Office Box 4970, Jacksonville, Florida 32232-0019.

2. The Permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structures or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the Permittee will be required, upon due notice from the U.S. Army Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.

3. No structure or work shall adversely affect or disturb properties listed in the National Register of Historic Places or those eligible for inclusion in the National Register. Prior to the start of work, the Permittee or other party on the Permittee's behalf, shall conduct a search in the National Register Information System (NRIS). Information can be found at; <http://www.cr.nps.gov/nr/research/nris.htm>. Information on properties eligible for inclusion in the National Register can be identified by contacting the Florida Master File Office by email at [fmsfile@dos.state.fl.us](mailto:fmsfile@dos.state.fl.us) or by telephone at 850-245-6440.

If unexpected cultural resources are encountered at any time within the project area that was not the subject of a previous cultural resource assessment survey, work should cease in the immediate vicinity of such discoveries. The permittee, or other party, should notify the SHPO immediately, as well as the appropriate Army Corps of Engineers office. After such notifications, project activities should not resume without verbal and/or written authorization from the SHPO.

If unmarked human remains are encountered, all work shall stop immediately, and the proper authorities notified in accordance with Section 872.05, Florida Statutes, unless on Federal lands. After such notifications, project activities on non-Federal lands shall not resume without verbal and/or written authorization from the Florida State Archaeologist for finds under his or her jurisdiction.

4. Appropriate soil erosion and sediment controls must be used and maintained in effective operating condition during construction, and all exposed soil and other fills, as well as any work below the ordinary high water mark or high tide line, must be permanently stabilized at the earliest practicable date.

5. Reduction and/or elimination of turbid water conditions in adjacent water bodies and wetlands are to be achieved through the use of silt curtains or screens in the construction area during periods of fill placement.

6. In compliance with Federal Register/Vol 72, No 47/Page 11192 dated March 12, 2007, Nationwide Permit General Condition

16 states that no activity or its operation may impair reserved tribal rights, including, but not limited to, reserved water rights and treaty fishing and hunting rights. It is understood that water would be pumped from the C-40 Canal to the L60 Canal, which is used by the Seminole Brighton Indian Reservation. To ensure that no unacceptable tribal impacts are proposed, no work shall begin on the S-72 structure until a concurrence letter is received by the Corps from the Seminole Brighton Indian Reservation.

7. The applicant shall adhere to the Manatee Construction Guidelines during all in-water work.

8. To ensure navigation safety, a floating safety barrier shall be installed lakeside of the S-71 Structure similar to the barrier depicted in Sheet 2 of 6.

This letter of authorization does not obviate the necessity to obtain any other Federal, State, or local permits, which may be required. In Florida, projects qualifying for this NWP must be authorized under Part IV of Chapter 373 by the Department of Environmental Protection, a water management district under §. 373.069, F.S., or a local government with delegated authority under §. 373.441, F.S., and receive Water Quality Certification (WQC) and Coastal Zone Consistency Concurrence (CZCC) (or a waiver), as well as any authorizations required by the State for the use of sovereignty submerged lands. You should check State-permitting requirements with the Florida Department of Environmental Protection or the appropriate water management district.

This letter does not give absolute Federal authority to perform the work as specified on your application. The proposed work may be subject to local building restrictions mandated by the National Flood Insurance Program. You should contact your local office that issues building permits to determine if your site is located in a flood-prone area, and if you must comply with the local building requirements mandated by the National Flood Insurance Program.

If you are unable to access the internet or require a hardcopy of any of the conditions, limitations, or expiration

date for the above referenced NWP, please contact Alisa Zarbo by telephone at 772-219-8418.

This letter contains an approved jurisdictional determination. Enclosed you will find the approved jurisdictional determination form and a Notification of Appeal Process fact sheet and Request for Appeal (RFA) form. If you object to this determination, you may request an administrative appeal under Corps' regulations at 33 CFR Part 331. If you request to appeal this determination, you must submit a completed RFA form to the South Atlantic Division Office at the following address:

Mr. Michael F. Bell  
South Atlantic Division  
U.S. Army Corps of Engineers  
CESAD-CM-CO-R, Room 9M15  
60 Forsyth St., SW.  
Atlanta, Georgia 30303-8801.

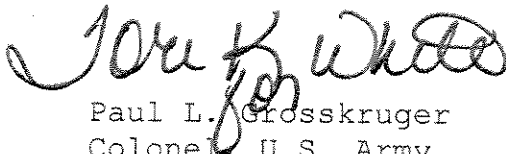
Mr. Bell can be reached by telephone number at 404-562-5137, or by facsimile at 404-562-5138.

In order for an RFA to be accepted by the Corps, the Corps must determine that it is complete, that it meets the criteria for appeal under 33 CFR Part 331.5, and that it has been received by the Division office within 60 days of the date of the RFA. Should you decide to submit an RFA form, it must be received at the above address by August 31, 2007.

Thank you for your cooperation with our permit program. The Corps Jacksonville District Regulatory Division is committed to improving service to our customers. We strive to perform our duty in a friendly and timely manner while working to preserve our environment. We invite you to take a few minutes to visit the following link and complete our automated Customer Service Survey:

[http://www.saj.usace.army.mil/permit/forms/customer\\_service.htm](http://www.saj.usace.army.mil/permit/forms/customer_service.htm).  
Your input is appreciated - favorable or otherwise.

Sincerely,

  
Paul L. Grosskruger  
Colonel, U.S. Army  
District Engineer

Enclosures

bcc:  
CESAJ-RD-PE

GENERAL CONDITIONS  
33 CFR PART 320-330

PUBLISHED FEDERAL REGISTER DATED 13 NOVEMBER 1986

1. The time limit for completing the work authorized ends on **date identified in the letter**. If you find that you need more time to complete the authorized activity, submit your request for a time extension to this office for consideration at least one month before the above date is reached.
2. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.
3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and state coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.
4. If you sell the property associated with this permit you must obtain the signature of the new owner in the space provided and forward a copy of the permit to this office to validate the transfer of this authorization.
5. If a conditioned water quality certification has been issued for your project, you must comply with the conditions specified in the certification as special conditions to this permit. For your convenience, a copy of the certification is attached if it contains such conditions.
6. You must allow a representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit.

SELF-CERTIFICATION STATEMENT OF COMPLIANCE

Permit Number: NW-31

Application Number: SAJ-2008-335

Permittee's Name & Address (please print or type): \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Telephone Number: \_\_\_\_\_

Location of the Work: \_\_\_\_\_

\_\_\_\_\_

Date Work Started: \_\_\_\_\_ Date Work Completed: \_\_\_\_\_

Description of the Work (e.g., bank stabilization, residential or commercial filling, docks, dredging, etc.): \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Acreage or Square Feet of Impacts to Waters of the United States: \_\_\_\_\_

\_\_\_\_\_

Describe Mitigation completed (if applicable): \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Describe any Deviations from Permit (attach drawing(s) depicting the deviations): \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\*\*\*\*\*

I certify that all work, and mitigation (if applicable) was done in accordance with the limitations and conditions as described in the permit. Any deviations as described above are depicted on the attached drawing(s).

\_\_\_\_\_  
Signature of Permittee

\_\_\_\_\_  
Date



DEPARTMENT OF THE ARMY PERMIT TRANSFER REQUEST

PERMIT NUMBER: \_\_\_\_\_

When the structures or work authorized by this permit are still in existence at the time the property is transferred, the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. Although the construction period for works authorized by Department of the Army permits is finite, the permit itself, with its limitations, does not expire.

To validate the transfer of this permit and the associated responsibilities associated with compliance with its terms and conditions, have the transferee sign and date below and mail to the U.S. Army Corps of Engineers, Enforcement Branch, Post Office Box 4970, Jacksonville, FL 32232-0019.

\_\_\_\_\_  
(TRANSFEREE-SIGNATURE)

\_\_\_\_\_  
(SUBDIVISION)

\_\_\_\_\_  
(DATE)

\_\_\_\_\_  
(LOT)

\_\_\_\_\_  
(BLOCK)

\_\_\_\_\_  
(NAME-PRINTED)

\_\_\_\_\_  
(STREET ADDRESS)

\_\_\_\_\_  
(MAILING ADDRESS)

\_\_\_\_\_  
(CITY, STATE, ZIP CODE)

# NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND REQUEST FOR APPEAL

Applicant: SFWMD, S-72 and S-72 Structures	File Number: SAJ-2008-335	Date: Feb 7, 2008
Attached is:		See Section below
<input type="checkbox"/>	INITIAL PROFFERED PERMIT (Standard Permit or Letter of permission)	A
<input type="checkbox"/>	PROFFERED PERMIT (Standard Permit or Letter of permission)	B
<input type="checkbox"/>	PERMIT DENIAL	C
<input type="checkbox"/>	APPROVED JURISDICTIONAL DETERMINATION	D
<input checked="" type="checkbox"/>	PRELIMINARY JURISDICTIONAL DETERMINATION	E

**SECTION I -** The following identifies your rights and options regarding an administrative appeal of the above decision. Additional information may be found at <http://usace.army.mil/inet/functions/cw/cecw/reg> or Corps regulations at 33 CFR Part 331.

**A: INITIAL PROFFERED PERMIT:** You may accept or object to the permit.

- *ACCEPT: If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.*
- *OBJECT: If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the permit be modified accordingly. You must complete Section II of this form and return the form to the district engineer. Your objections must be received by the district engineer within 60 days of the date of this notice, or you will forfeit your right to appeal the permit in the future. Upon receipt of your letter, the district engineer will evaluate your objections and may: (a) modify the permit to address all of your concerns, (b) modify the permit to address some of your objections, or (c) not modify the permit having determined that the permit should be issued as previously written. After evaluating your objections, the district engineer will send you a proffered permit for your reconsideration, as indicated in Section B below.*

**B: PROFFERED PERMIT:** You may accept or appeal the permit

- *ACCEPT: If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.*
- *APPEAL: If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.*

**C: PERMIT DENIAL:** You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

**D: APPROVED JURISDICTIONAL DETERMINATION:** You may accept or appeal the approved JD or provide new information.

- *ACCEPT: You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days of the date of this notice, means that you accept the approved JD in its entirety, and waive all rights to appeal the approved JD.*
- *APPEAL: If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.*

**E: PRELIMINARY JURISDICTIONAL DETERMINATION:** You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also you may provide new information for further consideration by the Corps to reevaluate the JD.

**SECTION II - REQUEST FOR APPEAL or OBJECTIONS TO AN INITIAL PROFFERED PERMIT**

**REASONS FOR APPEAL OR OBJECTIONS:** (Describe your reasons for appealing the decision or your objections to an initial proffered permit in clear concise statements. You may attach additional information to this form to clarify where your reasons or objections are addressed in the administrative record.)

**ADDITIONAL INFORMATION:** The appeal is limited to a review of the administrative record, the Corps memorandum for the record of the appeal conference or meeting, and any supplemental information that the review officer has determined is needed to clarify the administrative record. Neither the appellant nor the Corps may add new information or analyses to the record. However, you may provide additional information to clarify the location of information that is already in the administrative record.

**POINT OF CONTACT FOR QUESTIONS OR INFORMATION:**

If you have questions regarding this decision and/or the appeal process you may contact:

**Project Manager as noted in letter**

If you only have questions regarding the appeal process you may also contact:

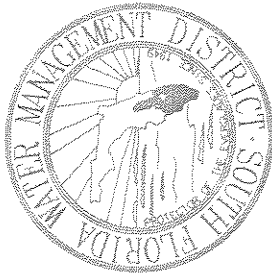
**Michael F. Bell  
404-562-5137**

**RIGHT OF ENTRY:** Your signature below grants the right of entry to Corps of Engineers personnel, and any government consultants, to conduct investigations of the project site during the course of the appeal process. You will be provided a 15 day notice of any site investigation, and will have the opportunity to participate in all site investigations.

\_\_\_\_\_  
Signature of appellant or agent.

Date:

Telephone number:



**SOUTH FLORIDA  
WATER MANAGEMENT DISTRICT**

**LAKE OKEECHOBEE  
S-71 STRUCTURE STABILITY  
TAILWATER WEIR**

**GLADES COUNTY, FLORIDA**

**GOVERNING BOARD**

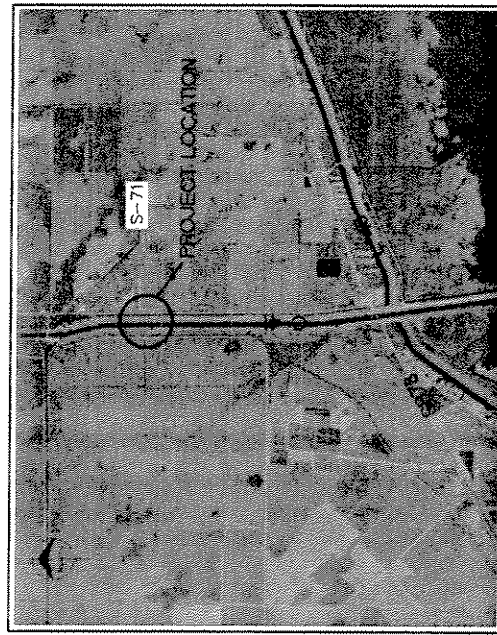
ERIC BLIERMANN  
CHAIRPERSON  
NICOLAS J. GUTIERREZ, JR., ESQ.  
VICE - CHAIRPERSON  
MICHAEL COLLINS  
CHARLES J. DAURAY  
SHANNON A. ESTENOS  
MELISSA MEENER  
PATRICK ROONEY  
HARLEY R. THORNTON  
MALCOLM S. WADE, JR.  
BOARD MEMBERS

**EXECUTIVE OFFICE**

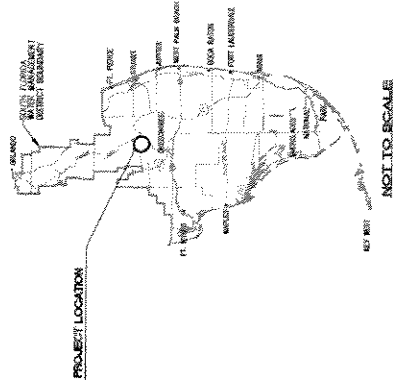
CAROL WEHLE  
EXECUTIVE DIRECTOR

APPROVED BY:

ENGINEERING DEPARTMENT



**LOCATION MAP**



**NOT TO SCALE**

**INDEX OF SHEETS**

1. COVER SHEET AND LOCATION MAP
2. DISTRICT STANDARD DRAWINGS
3. SECTIONS
4. SHEET PILE LAYOUT
5. MISC. DETAILS

**DISTRICT STANDARD DRAWINGS**

- CS FLOATING SAFETY BARRIER (1 OF 2)
- CS WINGWALL (1 OF 1)
- CS WINGWALL SEEN (1 OF 1)
- SS STRUCTURE HANDRAIL (1 OF 1)

**REFERENCE SHEETS**

- SFWMD TOPOGRAPHIC SURVEY (13 SHEETS)

**CONFIDENTIAL INFORMATION ENCLOSED**

This document contains information of a confidential nature. It is not to be distributed outside the project area. If it is distributed outside the project area, it must be accompanied by a written statement from the project manager stating that the information is not confidential. If it is distributed outside the project area, it must be accompanied by a written statement from the project manager stating that the information is not confidential.

**PROJECT I.D. NO. C781**



**SOUTH FLORIDA WATER MANAGEMENT DISTRICT**  
ENGINEERING DEPARTMENT  
PHONE: 305-486-8800  
FAX: 305-486-8800  
1301 GUN CLUB ROAD  
WEST PALM BEACH, FLORIDA 33409

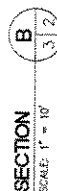
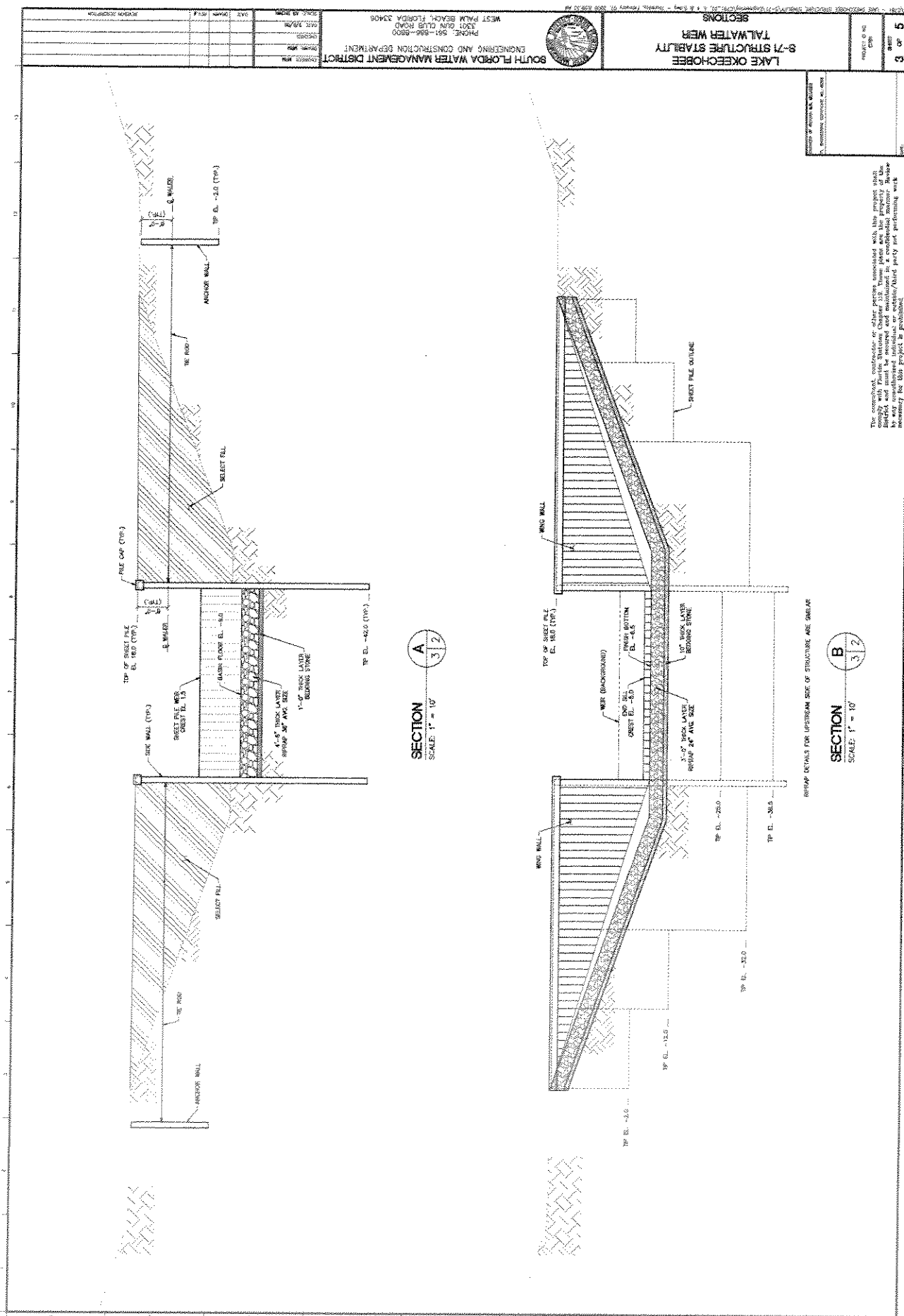
**LAKE OKEECHOBEE  
S-71 STRUCTURE STABILITY  
TAILWATER WEIR  
COVER SHEET AND LOCATION MAP**

**PROJECT I.D. NO. C781**  
**1 OF 5**



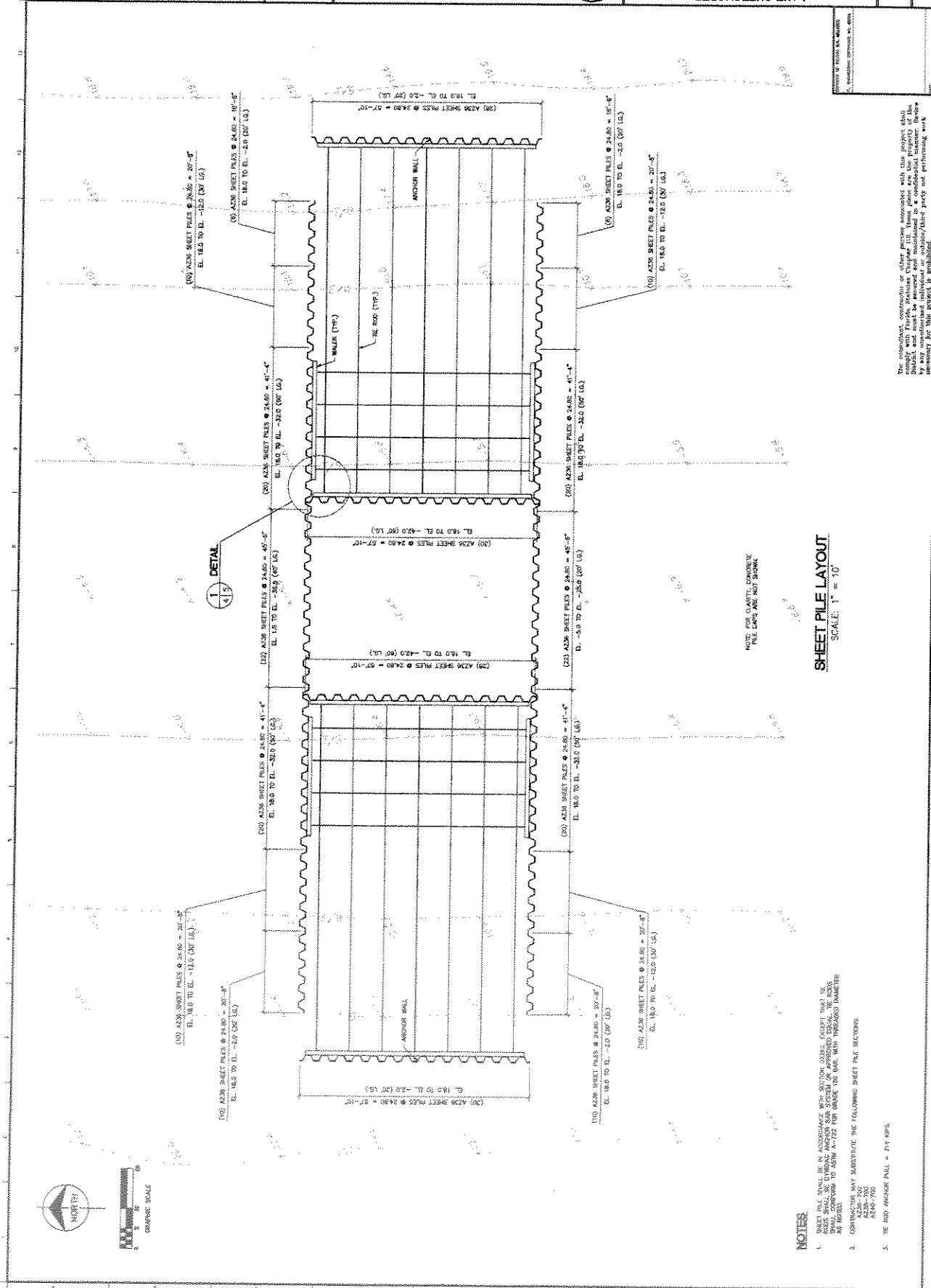
LAKE OKEECHOBEE  
S-71 STRUCTURE STABILITY  
TALWATER WEB  
SECTIONS

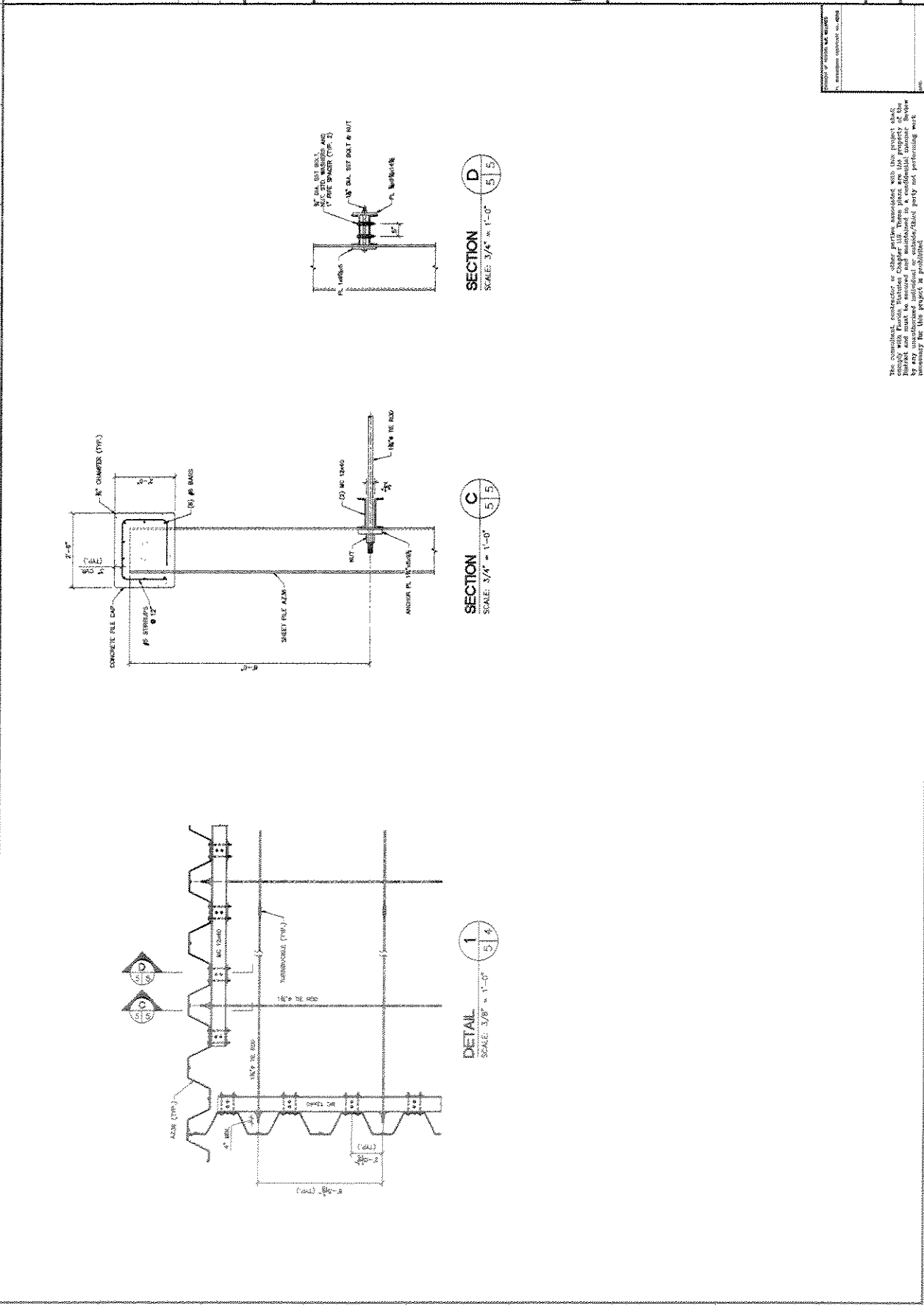
SOUTH FLORIDA WATER MANAGEMENT DISTRICT  
ENGINEERING AND CONSTRUCTION DEPARTMENT  
PHONE: 561-886-5800  
3301 OAK CLAY ROAD  
WEST PALM BEACH, FLORIDA 33406



### DISPLAY DETAILS FOR UPSTREAM SIDE OF STRUCTURE AND GUMS ARE

SOUTH FLORIDA WATER MANAGEMENT DISTRICT  
ENGINEERING AND CONSTRUCTION DEPARTMENT  
PHONE: 561-898-8800  
3301 OCEAN CLUB ROAD  
WEST PALM BEACH, FLORIDA 33406



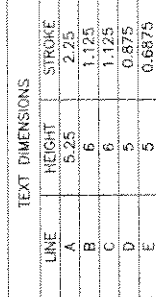


The consultant, contractor or other parties associated with this project shall be responsible for obtaining all necessary permits and approvals from the appropriate authorities. The consultant, contractor or other parties shall be responsible for obtaining all necessary permits and approvals from the appropriate authorities. The consultant, contractor or other parties shall be responsible for obtaining all necessary permits and approvals from the appropriate authorities.









1. SIGN PANEL SHALL BE ALUMINUM 6061-T6 WITH WHITE BACKGROUND AND BLACK LETTERING CONFORMING TO FEDERAL STANDARDS. ALPHABET SERIES P. THE PANEL LETTERING DESIGN AND FINISHING SHALL CONFORM TO FIRST STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
2. ALL BOLTS, NUTS AND WASHERS SHALL BE HARDENED PAPER STAINLESS STEEL, TYPE 316.
3. ALUMINUM LETTERING SHALL CONFORM TO ALUMINUM ASSOCIATION ALLOY 6061-T6 AND ASYM SUBGROUP. LETTER SIZES: 18" MINIMUM, 12" MAXIMUM. ALL LETTERS SHALL BE 12" MINIMUM. ALL LETTERS SHALL HAVE ROUNDED OR BEVELED EDGES FOR ROUNDED CORNERS.
4. THICKNESS OF SIGN SHALL CONFORM TO ASTM D226 WITH A MINIMUM BUTT DIAMETER OF 12". THICKNESS AS PER SUBGROUP STANDARD NO. 02.04.06.
5. THE CONTRACTOR SHALL SUBMIT LETTERING DESIGN TO THE ENGINEER FOR APPROVAL.
6. PROVIDE WARNING SIGN AND FLASHING SAFETY BARRER ELIMINATION LIGHTING AT ALL LOCATIONS THAT MAY BE USED BY THE GENERAL PUBLIC DURING OR OUT-OF-THIGHT HOURS. CONFORM WITH DESIGN DETAILS 4.1, 4.2 AND 4.3.

# REMARKS NOTES

## 1. COMMENTS:

### A. HANDRAILS:

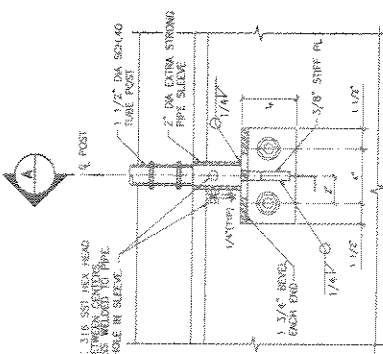
1. GALVANIZED STEEL WALLS AND POSTS SHALL BE 1/2" DIAMETER SEAMLESS TUBING, SCHEDULE 40 FOR HANDRAILS, SCHEDULE 40 FOR POSTS.
2. ALL WELDS AND JOINTS SHALL BE WELDED TO A PLAINING Z. APPEARANCE, TANGS ONE TO TWO INCHES OF WELDED MATERIALS.
3. BUTT-WELD END-TO-END JOINTS, OR USE WELDING CONNECTIONS.
4. TUBING: TUBING (NOCK PLATE), IF REQUIRED, SHALL BE 1/2" X 4" WIDE GALV. STEEL PLATE, SPICER AT POSTS, 1/2" BOLT SHALL BE OF ANCHORED SIZE AND WELDING CONNECTIONS.
5. TUBING: TUBING (NOCK PLATE), IF REQUIRED, SHALL BE 1/2" X 4" WIDE GALV. STEEL PLATE, SPICER AT POSTS, 1/2" BOLT SHALL BE OF ANCHORED SIZE AND WELDING CONNECTIONS.
6. THERE IS A POTENTIAL HAZARD TO PERSONNEL ON EQUIPMENT BELOW THE PLATFORM.

## 2. INSTALLATION:

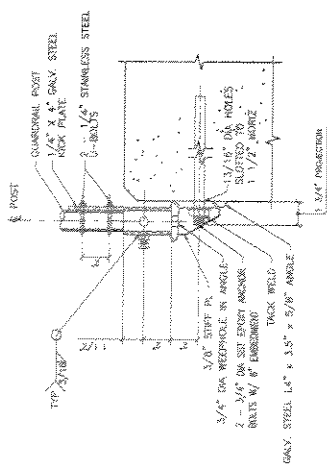
- A. SPACE POSTS A MAXIMUM OF 6'-0" ON CENTERS EXCEPT WHERE OTHERWISE INDICATED.
- B. INSTALL HANDRAILS TO WALLS WITH BRACKETS SPACED NOT GREATER THAN 5'-0", EXCEPT WHERE OTHERWISE INDICATED.
- C. INSTALL TUBING (NOCK PLATE) AND ANCHORS TO EACH POST WITH CLAMPS AND BOLTS.
- D. ALLOW 1/2" MAX SPACE BETWEEN BOTTOM OF NOCK PLATE AND TOP OF FLOOR SURFACE.
- E. RESIDENT SET PADS SHALL BE 1/2" THICK IN ACCORDANCE WITH SECTION 05-2-2 FOOT SPECIFICATIONS.
- F. TUBING: TUBING (NOCK PLATE), IF REQUIRED, SHALL BE 1/2" X 4" WIDE GALV. STEEL PLATE, SPICER AT POSTS, 1/2" BOLT SHALL BE OF ANCHORED SIZE AND WELDING CONNECTIONS.
- G. GAPS BETWEEN HANDRAILS AND FOOT BRACKETS SHALL NOT EXCEED 1/2".

3. ORDERING SHALL BE PROVIDED, SUBMIT ORDERING PLAN TO ENGINEER FOR APPROVAL.

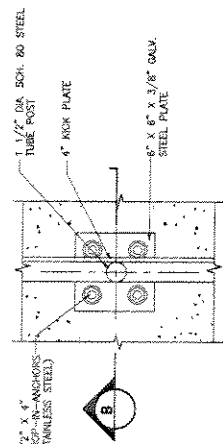
2 - 1/2" DIA. TUBE, 3/16" SET, 1/2" DIA. HEAD CAP SCREWS 87" (BUT NOT TO PIPE) PROVIDE 1/2" DIA. HOLE IN SLEEVE.



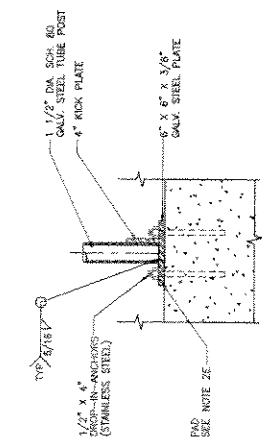
DETAIL BRACKET MOUNT DETAIL



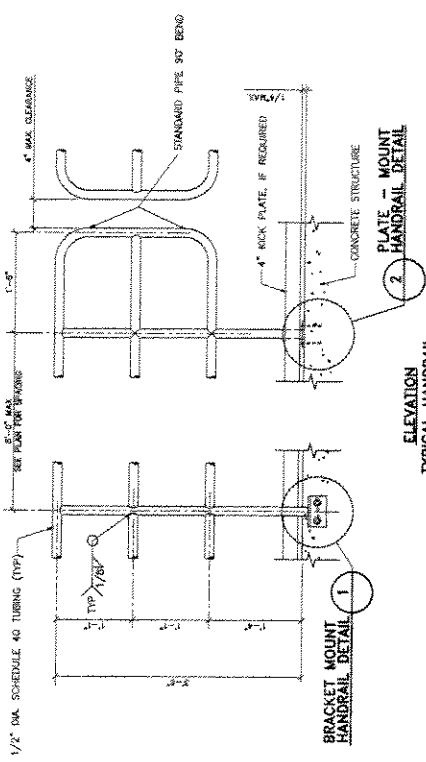
SECTION A



DETAIL PLATE MOUNT HANDRAIL



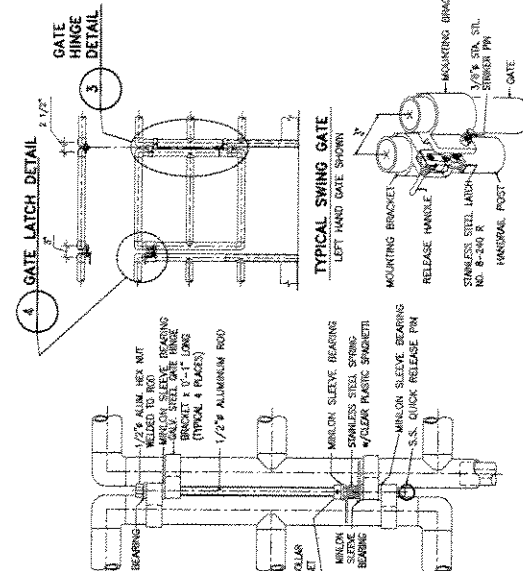
SECTION B



ELEVATION TYPICAL HANDRAIL

BRACKET MOUNT HANDRAIL DETAIL

PLATE MOUNT HANDRAIL DETAIL



TYPICAL SWING GATE LEFT HAND GATE SHOWN

DETAIL 3

DETAIL 4

HANDRAIL SWING GATE

SECTION A

SECTION B

DETAIL 3

DETAIL 4

SECTION A

SECTION B

DETAIL 3

DETAIL 4

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